

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Russell W. Gruhlke

Serial No.:

Examiner:

Filing Date:

Group Art Unit:

Title: WAVELENGTH TUNING AN EXTERNAL CAVITY LASER WITHOUT MECHANICAL MOTION

COMMISSIONER FOR PATENTS
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e), and
☐ a \$180.00 processing fee under 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account **50-1078** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-1078** pursuant to 37 CFR 1.25.

☐ Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (*) were disclosed in Patent Application No. _____ filed _____, now U. S. Patent No. _____, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

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I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

By

Typed Name: John Pallivathukal

Respectfully submitted,

Russell W. Gruhlke

By

William B. Tiffany

Attorney/Agent for Applicant(s)
Reg. No. **41,347**

Date: **08-29-2003**

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10021105-1

SERIAL NO.

APPLICANT

Russell W. Gruhlke

FILING DATE

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
		EP 02 017446	08-03-2002	Agilent Technologies, Inc.		

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	Hecht, E., "Optics," Addison-Wesley, (1974), p. 97-98.
	Bass, M., eds., "Handbook of Optics," McGraw-Hill, (1995), Chapter 14, 'Liquid Crystals,' p. 14.1-14.23.
	Duarte, F. J., eds., "Tunable Lasers Handbook," Academic Press, (1995), Chapter 8, 'Tunable External-Cavity Semiconductor Lasers,' p. 349-413.

EXAMINER

DATE CONSIDERED

* C pies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	10021105-1	
	APPLICANT Russell W. Gruhlke	
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	Gruhlke, Russell W. et al., "Method of Enhancing Wavelength Tuning Performance in an External Cavity Laser," Agilent Technologies, Inc., Attorney Docket No. 10030131-1, August 2003.
	Hoke, Charles D. et al., "External Cavity Laser in Which Diffractive Focusing is Confined to a Peripheral Portion of a Diffractive Focusing Element," Agilent Technologies, Inc., Attorney Docket No. 10030129-1, August 2003.
	Gruhlke, Russell W., "Using Relay Lens to Enhance Optical Performance of an External Cavity Laser," Agilent Technologies, Inc., Attorney Docket No. 10030130-1, August 2003.

EXAMINER

DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)